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> **U.S. DEPARTMENT OF AGRICULTURE** AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

**Exhibit C** 

## **OBJECTIVE DESCRIPTION OF VARIETY** Vetch (Vicia spp.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME					
ADDRESS (Street and No. or RD No., City, State, Zip Code and Country)		FOR OFFICIAL USE ONLY					
TESTESS (SPECIALITY)		PVPO NUMBER					
PLEASE READ ALL INSTRUCTIONS CAREFULLY	:						
Place the appropriate number that describes the varietal character of this variety in the boxes below. Fill unused columns with zeroes (e.g., 0 9 9 when the number is 99). In comparisons to the standard varieties, the value 0 0 should only be used to indicate that the varieties are equal. Characteristics described, including numerical measurements, should represent those that are TYPICAL for the variety. Measured data should be for SPACED PLANTS. Characters in item							
	3 are considered to reflect homogeneity; frequencies of nontypical plants should be taken into regard in Exhibit A. Any recognized color fan, e.g., Natural Bureau						
of Standards Circular 553 Supplement, may also be used to determine plant colors; designate system used:							
NOTE: For single plant data a minimum of 100 plants is suggested.							
1. KIND (in accordance with the Federal Seed Act): I	Use the standard comparison varieties (in parentheses)	in items below.					
1 = Common (Willamette) 2 = Hairy (Madison) 3 = Hungarian ( ) 4 = Monantha (Lafayette) 5 = Narrowleaf ( ) 6 = Purple ( ) 7 = Woollypod (Lana) 8 = Other (Specify)							
STANDARD	COMPARISON VARIETIES (Use the variety appropriate	e for the kind)					
1 = Willamette 2 = Madison 4 = Lafayette 7 = Lana 3, 5, 6, 8 = Specify							
2. SEED:							
Shape: 1 = Spherical 2 = Subspherical (Willamette) 3 = Sublenticular 4 = Rectangular 5 = Other (Specify)							
	1	Lighter Than Standard Variety					
mm Maximum Diameter	gms/1,000 seeds gms I	Heavier Than Standard Variety					
SEED COLOR: Colors should be dete	ermined on mature, freshly harvested seed.						
Ground color of testa: 1 = W 6 = Grey ( <i>Willamette</i> ) 7 = Blue	/hite 2 = Pink 3 = Brown 4 = Light Green 5 = Gree-black	ey-green					
Seed Cost Pattern (Ornaments):	Seed Cost Pattern (Ornaments):						
Type of Main Pattern:	4 - None 2 - Stippling 2 - Speekling (Willematte)	I - Marbling					
Type of Secondary Pattern:	1 = None 2 = Stippling 3 = Speckling ( <i>Willamette</i> ) 4	+ = Iviai biil Ig					

2. SEED: (continued)					
Color of Main Patterning: 1 = Brown=Red Brown 2 = Sepia = Grey Brown 3 = Dark Gray (Willamette) 4 = Violet					
HILUM:					
Color: 1 = White 2 = Brown (Willamette) 3 = Sepia = Grey-brown 4 = Black					
Size (Length – Compared to $1 = \text{Very Small } (<1/6)$ $2 = \text{Small } (1/6 - 1/4)$ Seed Circumference): $3 = \text{Large } (1/4 - 1/2)$ $4 = \text{Very Large } (>1/2)$					
COTYLEDON COLOR: 1 = Yellow 2 = Buff 3 = Orange 4 = Pink-violet 5 = Other (Specify)					
3. SEEDLING: Comparison varieties should be grown under identical conditions with the application variety in the field. Seedlings should be examined when all primary leaves are fully developed, but not senescent (3-4 weeks after germination). Greenhouse trials are not comparable; please indicate if these items are used:					
SEEDLING STEM (Primary Axis):					
mm Height (From Soil to Insertion of Highest Primary Leaf)					
No. of Secondary Branches  Stem Hairiness: 1 = Glabrous 2 = Pubescent 3 = Hairy					
Stem Coloration (Especially in Leaf Axiils): 1 = Green 2 = Reddish					
PRIMARY LEAF: 1st Primary Leaf)					
No. of Leaflets/Primary Leaf (Not No. of Pairs)					
Shape (See Illustrations): Compare Dimensions and Base and Apex.					
1 = Subcordate 2 = Ovate 3 = Elliptic 4 = Lanceolate 5 = Sublinear 6 = Linear					
mm Maximum Lieflet Width					
mm Leaflet Length					
Hairiness: (Consider Density and Length)					
Upper Surface  1 = Glabrous 2 = Villous (Scarce, >1 mm) 3 = Pubescent (Common, < 1/2 mm)  4 = Hairy (Common, > 1/2 mm)					
4. MATURITY:(50% of Plants in Bloom)					
Days Earlier Than Standard Variety					
Days Later Than Standard Variety					
5. ADULT PLANT:  Habit: 1 = Decumbent 2 = Climbing 3 = Erect					
5. ADULT PLANT: (continued)					
cm Height (Canopy Height if not Erect)					

6. ADUI	ADULT LEAF:(At 2/3 Height of Plant on Main Stem at Flowering)						
	No. of Pairs of Leaflets						
		Adult Leaflet Shape: 1 = Elongate 2 = Elliptical 3 = Other (Specify)					
		Adult Leaflet Apex: 1 = Truncate 2 = Notched 3 = Deeply Notched					
		Stipular Nectaries: 1 = Colorless 2 = Red Terminal Tendrils: 1 = Absent 2 = Present					
7. FLOV	NER:						
		No Flowers/Peduncle					
PE.	TAL (	(Fully Expanded Standard of a Freshly Opened Flower):					
		Color (Anterior Face): 1 = White 2 = Pink 3 = Light Violet (Willamette) 4 = Dark Purple 5 = Other (Specify)					
		mm Narrower Than Standard Variety					
		mm Wider Than Standard Variety					
8. POD:	: (at S	Seed Maturity)					
Г		Color: 1 = Cream 2 = Buff 3 = Olive Tan (Willamette) 4 = Black					
Ī		Hairiness: 1 = Glabrous 2 = Sparsely Pubescent 3 = Pubescent 4 = Hairy					
Ī		Shape 1 = Straight Linear 2 = Curved Linear 3 = Rhomboid					
_	_						
		mm Width Standard Variety					
	_	mm Wider Than Standard Variety					
		No of Seeds/Pod  Constrictions Between Seeds: 1 = Slight 2 = Deep					
	1						
_	_	Shape of Distal End of Pod (Angle Adjacent to Beak): 1 = Obtuse 2 = Acute					
		BEAK:					
H	Length: 1 = Short (Tuberculate) 2 = Long (Extended)						
		Shape: 1 = Straight 2 = Recurved					
9. DISE	ASE	AND PESTS: (0 = Not Tested 1 = Susceptible 2 = Resistant)					
		Anthracnose (Colletotrichum spp)  Downy Mildew (Peronospora spp)					
		Rust (Uromyces fabae) Leaf Spot (Specify)					
		Stem Rot (Specify) Root Rot (Specify)					
Ц		Vetch Bruchid (Bruchus brachialis)  Potato Leafhopper (Empoasca fabae)	Potato Leafhopper ( <i>Empoasca fabae</i> )				
		Lygus Bugs ( <i>Lygus</i> spp)  Clover Leafhopper ( <i>Aceratagallia sanguinoenta</i> )					
		Pea Aphid (Acyrthosiphon pisum) Fall Armyworm (Spodoptera frugiperda)					
		Corn Earworm (Heliothis zea) Cutworms (Euxoa spp)					
0 DICE	ACT	AND DESTS: (0 - Not Tooted, 1 - Supportible, 2 - Desistant)					
a. DISE		AND PESTS: (0 = Not Tested 1 = Susceptible 2 = Resistant)  Other (Specific)					
	(	Other (Specify) Other (Specify)					
		ROOT KNOT NEMATODES (Meloidogyne spp)  M. incognita acrita					
	М. І	incognita M. arenaria M. javanica M. hapia					

## 10. INDICATE THE VARIETY MOT CLOSELY RESEMBLING THE APPLICATION VARIETY FOR THE FOLLOWING:

CHARACTER	VARIETY	CHARACTER	VARIETY
Cold Hardiness		Earliness	
Percentage Hard Seeds		Seed Yield	
Pod Dehiscence		Growth Habit	

## REFERENCES:

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COMMENTS: